### PATENT COOPERATION TREATY

# From the INTERNATIONAL SEARCHING AUTHORITY To: KNOBBE, MARTENS, OLSON & BEAR, LLP Attn. Hart, Daniel 2040 Main Street COMMUNICATION IN CASES FOR WHICH 14th Floor Irvine, CA 92614 NO OTHER FORM IS APPLICABLE UNITED STATES OF AMERICA Date of mailing (day/month/year) 08/07/2005 Applicant's or agent's file reference REPLY DUE See paragraph 1 below NEREUS.079VP International application No. international filing date (day/month/year) PCT/US2004/019543 18/06/2004 Applicant NEREUS PHARMACEUTICALS, INC. REPLY DUE within \_\_\_ \_\_\_\_\_ iXiXiXs/days from the above date of mailing X NO REPLY DUE 2. COMMUNICATION: Referring to your fax of 29.06.2005, please find enclosed a corrected version of the International Search Report, that replaces and cancels the one already in your possession. A copy of this letter has been sent to the International Bureau. Name and mailing address of the International Searching Authority Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Joëlle Gerber

Fax: (+31-70) 340-3016

#### PATENT COOPERATION TREATY

#### From the INTERNATIONAL SEARCHING AUTHORITY

# To: KNOBBE, MARTENS, OLSON & BEAR, LLP Attn. Hart, Daniel 2040 Main Street 14th Floor Irvine, CA 92614 UNITED STATES OF AMERICA

# **PCT**

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION

UNITED STATES OF AMERICA

(PCT Rule 44.1)

Date of mailing (day/month/year) 08/07/2005

Applicant's or agent's file reference

NEREUS . 079 VP

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.

PCT/US2004/019543

Applicant

NEREUS PHARMACEUTICALS, INC.

1. X	The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.
	Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.
	Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41-22) 740.14.35
	For more detailed instructions, see the notes on the accompanying sheet.
2.	The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3.	With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
	the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

#### 4. Reminders

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90*bis*.1 and 90*bis*.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Authorized officer

Joëlle Gerber

#### **NOTES TO FORM PCT/ISA/220**

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

#### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments?

#### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

#### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as fited.

# The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
   claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
   "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]:
   "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

#### It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1 bis(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the applicant may submit to the International Preliminary Examining Authority a reply to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43 bis.1(c)).

#### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.

# PATENT COOPERATION TREATY

# PCT

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

	(PC) Afficie 18 and Aujes 45	4174 - 17	
Applicant's or agent's file reference	FOR FURTHER ACTION	as well	see Form PCT/ISA/220 as, where applicable, item 5 below.
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International application No.	International ming date (day///one	,	1
PCT/US2004/019543	18/06/2004	<u> </u>	20/06/2003
Applicant			
NEREUS PHARMACEUTICALS, IN	۲C.		
NEREUS PHARMACEO: ICHES, II			
This International Search Report has been according to Article 18. A copy is being tra	r prepared by this International Sea nsmitted to the International Burea	rching Auth J.	ority and is transmitted to the applicant
This International Search Report consists	of a total ofsh	eets.	
X It is also accompanied by	a copy of each prior art document of	ited in this r	eport,
Basis of the report     With regard to the language, the interpretation of the language in which it was filed, unlike the language in which it was filed, unlike the language in which it was filed, unlike the language.	international search was carried ou ess otherwise indicated under this i	t on the basi tem.	is of the international application in the
The international this Authority (Ru	search was carried out on the basis le 23.1(b)).	of a transla	ation of the international application furnished to
		e disclosed i	in the international application, see Box No. I.
2. X Certain claims were fou	nd unsearchable (See Box II).		
3. X Unity of invention is lac	king (see Box III).		
4. With regard to the title,	a the the coefficient		
the text is approved as su			
X the text has been establis	shed by this Authority to read as foll	ows:	THE TREATMENT OF
USE OF [3.2.0] HETERO CANCER, INFLAMMATION	CYCLIC COMPOUNDS AND AND INFECTIOUS DISEA:	Analog: Es	S THEREOF FOR THE TREATMENT OF
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5. With regard to the abstract,			
	ubmitted by the applicant.		
1 8	at and according to Rule 38 2(b), by	this Authori	ity as it appears in Box No. IV. The applicant
the text has been establi may, within one month fr	om the date of mailing of this intern	ational sear	ch report, submit comments to this Authority.
6. With regard to the drawings,			
a. the figure of the drawings to be	published with the abstract is Figur	e No1	
X as suggested by			
	his Authority, because the applican	t failed to su	ggest a figure.
	his Authority, because this figure be		
La service in to	be published with the abstract.		
b. none of the figures is to	ne hamienea mar me aberraei.		

CORRECTED VERSION

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2004/019543

Roy No IV	Text of the abstract	Continuation	of item 5 o	f the first sheet)
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Disclosed are methods of treating cancer, inflammatory conditions, and/or infectious disease in an animal comprising: administering to the animal, a therapeutically effective amount of a [3.2.0] heterocyclic compound, preferably a 6-oxa-2-azabicyclo[3.2.0]heptane-3,7-dione, such as salinosporamide A. The animal is a mammal, preferably a human or a rodent.

International application No. PCT/US2004/019543

# INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:  Although claims 1-14, and 17-24 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged
effects of the compound/composition.
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
Claims Nos.:  because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  X  No protest accompanied the payment of additional search fees.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1 (partially), 2-15 (entirely), 17-20 (entirely)

Use of a compound having the structure of formula I, and pharmaceutically acceptable salts and pro-drug esters thereof in the treatment of cancer. A method of treating a neoplastic disease in an animal, the method comprising administering to the animal a therapeutically effective amount of a compound of a formula selected from formulae I-V, and pharmaceutically acceptable salts and pro-drug esters thereof. A pharmaceutical composition comprising a compound of a formula selected from formulae I-V, and pharmaceutically acceptable salts and pro-drug esters thereof, without an anti-microbial agent. A method of inhibiting the growth of a cancer cell comprising contacting a cancer cell with a compound of a formula selected from formulae I-V, and pharmaceutically acceptable salts and pro-drug esters thereof. A method of inhibiting proteasome activity or of inhibiting NF-kappaB activation comprising the step contacting a cell with a compound of a formula selected from formulae I-V, and pharmaceutically acceptable salts and pro-drug esters thereof.

2. claims: 1 (partially), 21-22 (entirely)

Use of a compound having the structure of formula I, and pharmaceutically acceptable salts and pro-drug esters thereof in the treatment of inflammation. A method for treating an inflammatory condition comprising administering an effective amount of a compound of a formula selected from formulae I-V to a patient in need thereof.

3. claims: 1 (partially), 16 (entirely), 23-24 (entirely)

Use of a compound having the structure of formula I, and pharmaceutically acceptable salts and pro-drug esters thereof in the treatment of infectious disease. A pharmaceutical composition comprising a compound of a formula selected from formulae I-V, and pharmaceutically acceptable salts and pro-drug esters thereof and an anti-microbial agent. A method for treating a microbial illness comprising administering an effective amount of a compound of a formula selected from formulae I-V to a patient in need thereof.

# INTERNATIONAL SEARCH REPORT

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IPC 7	A61K			
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EPO-Int	ata base consulted during the international search (name of data base of ternal, WPI Data, PAJ, CHEM ABS Data LERT, BIOSIS	and, where practical, e	earch terms used)	ISEARCH, CANCERLIT
nocuMs	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant	ant passages		Relevant to claim No.
х	FELING ROBERT H ET AL: "Salinosp A: a highly cytotoxic proteasome from a novel microbial source, a bacterium of the new genus salino ANGEWANDTE CHEMIE (INTERNATIONAL ENGLISH), (2003 JAN 20) 42 (3) 35	oramide inhibitor marine spora." ED. IN		1-5, 9-12,14, 15,17-20
Y	JOURNAL CODE: 0370543. ISSN: 0570 20 January 2003 (2003-01-20), XPO page 355, column 1, paragraph 3 - 2, paragraph 1 page 356, column 2, paragraph 3	02304842		1-3,6,8, 16,20-24
	in the section of how C	X Patent family	members are liste	d in annex.
X Furt	ther documents are listed in the continuation of box C.	<u>M</u> ,,		
*A* docum	ategories of cited documents ; nent defining the general state of the last which is not idered to be of particular relevance document but published on or after the international	cited to understation "X" document of partic	and the principle or cular relevance; the	theory underlying the
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# INTERNATIONAL SEARCH REPORT

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ategory <sup>a</sup>	Citation of document, with indication, where appropriate, of the relevant passages	Helevant to distill the				
K	FENICAL W. ET AL: "Marine microorganisms as a developing resource for drug discovery."  PHARMACEUTICAL NEWS, 9/6 (489-494). REFS: 14 ISSN: 1071-894X CODEN: PHNEEP, 2002,	1-3, 9-12,14, 15,17, 19,20				
1	XP008038137 page 493, column 1, paragraph 1	1-3,6,8, 16,20-24				
	figure 4					
х	WO 02/47610 A (UNIV CALIFORNIA) 20 June 2002 (2002-06-20)	1-4, 9-12,14, 15,17, 19,20 21,23				
A	page 9, paragraph 2 - page 10, paragraph 1 examples 5-8,12 claims 1,3-6 figure 1	21,23				
Х	[Online] XP002304843 Retrieved from the Internet: URL:http://www.newton.rcs.it/PrimoPiano/News/2003/02 Febbraio/03/Antobiotico.shtml> [retrieved on 2003-02-02]	1-4, 9-12,14, 15,17, 19,20				
A	the whole document					
Y	GOLDBERG, ALFRED L. ET AL: "Not just research tools- proteasome inhibitors offer therapeutic promise" NATURE MEDICINE (NEW YORK, NY, UNITED STATES), 8(4), 336-340 CODEN: NAMEFI; ISSN: 1078-8956, 2002, XP008038140 page 338, column 2, paragraph 1 - column 3, paragraph 1 page 340, column 2, paragraph 2 - paragraph 3	1-3,6,8,				
A	NICOLAUS B J R: "Symbiotic Approach to Drug Design" DECISION MAKING IN DRUG RESEARCH, XX, XX, 1983, pages 173-186, XP002197412					
P,X	REDDY, LELETI RAJENDER ET AL: "A Simple Stereocontrolled Synthesis of Salinosporamide A" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, 126(20), 6230-6231 CODEN: JACSAT; ISSN: 0002-7863, 22 April 2004 (2004-04-22), XP008038141	1-3, 9-12,14, 15,17, 19,20				
P,Y	page 6230, column 1, paragraph 1 page 6231, column 2, paragraph 2	1-3,6,8, 15,20-24				
	page 6251, COTUMN 2, paragraph 2					
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CORRECTED VERSIONS

# INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/019543

		PCT/US2004/019543
C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	
E	WO 2004/071382 A (BAYER HEALTHCARE AG; MAYER-BARTSCHMID ANKE (DE); MUELLER HARTWIG (DE)) 26 August 2004 (2004-08-26) page 1, paragraph 1 page 3, paragraph 2 - page 4, paragraph 2 page 6, paragraph 3 - page 12, paragraph 1 page 19, paragraph 6 - paragraph 3 examples 1-7 page 56, paragraph 4 - page 57, paragraph 1 page 58, paragraph 5 - page 60, paragraph 1 claims 1-6,8,9,11-14	1-5, 9-12, 14-23
E	US 2004/138196 A1 (FELING ROBERT H R ET AL) 15 July 2004 (2004-07-15) page 1, paragraphs 4,10-16,18 page 3, paragraph 49-51 page 4, paragraphs 56,58 page 4, paragraph 61 - page 5, paragraph 64 claims 1-8,10-21	1-12, 14-20,23
Y	WO 96/32105 A (PRESIDENT AND FELLOWS OF HARVARD COLLEGE; SCHREIBER, STUART, L; STANDA) 17 October 1996 (1996-10-17) page 3, line 33 - page 6, line 15 page 7, line 21 - page 8, line 26 page 13, line 27 - page 14, line 12 page 81, lines 1-14 page 82, line 19 - page 83, line 2 page 84, lines 8-22 page 85, lines 8-22 page 85, lines 8-29 page 87, lines 8-29 page 88, line 12 - page 89, line 14 page 90, line 16 - page 91, line 14 page 91, line 31 - page 92, line 4 claims 6-8,10,23,32,38,40,45-48,53-55,58	1-5, 9-12,14, 16-23
Y	WO 00/23614 A (LEUKOSITE, INC; MILLENNIUM PHARMACEUTICALS, INC) 27 April 2000 (2000-04-27) page 3, lines 3,4 page 7, lines 6-24 page 10, lines 14-23 page 11, lines 9-14	1,19-22
Y	US 2001/002391 A1 (BRAND STEPHEN ET AL) 31 May 2001 (2001-05-31) page 1, paragraph 10 page 2, paragraphs 14,25,26 page 3, paragraph 29 page 4, paragraph 51 page 5, paragraphs 74,76 claims 1-3,7,11,14,16,20	1,19-22
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# INTERNATIONAL SEARCH REPORT

		PC1/052004/019543		
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT  Category Citation of document, with indication, where appropriate, of the relevant passages  Relevant to claim No.				
Category °	Cration of document, with indication, where appropriate, or the relevant passages			
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